

Western Electric Co., Incorporated,
Engineering Dept.,
New York.

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Appendix 1.
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METHOD OF OPERATION
AUXILIARY SIGNAL CIRCUIT
Repair Clerk's Desk.
FULL MECHANICAL POWER DRIVEN SYSTEM

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Change the designation of the E-5 relay to read OD.

No Count

ENG. -- JLS-DB.
7/20/22.

CHK'D.-RAP-CWP.

APPROVED - C. L. SIUYTER, G.M.L.

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METHOD OF OPERATION
AUXILIARY SIGNAL CIRCUIT
Repair Clerk's Desk - Full Mechanical Power Driven System.

GENERAL DESCRIPTION

1. This circuit is used to control the audible signal in the repair clerk's desk, in a full mechanical power driven office.
2. When a call terminates at the repair clerk's desk, an audible signal operates, providing the buzzer key is operated. The audible signal is disconnected when the operator, either answers the call or restores the buzzer key to normal.

DETAILED DESCRIPTION

3. When battery is connected to lead Y due to a call terminating at the repair clerk's desk, from the office or district multiple, a circuit is closed to ground through the #18-AC resistance in series with the winding of the B10 relay TK, which operates with the TK relay and the buzzer key operated, the #4-C buzzer operates.
4. On calls terminating at the repair clerk's desk from the final multiple, line switch or line finder frame, battery through 450 ohms is connected through lead X, to ground through the winding of the TK relay, which operates. The TK relay operated functions as described above.
5. When ground is connected to lead "N" due to a call terminating at the repair clerk's desk from other desks, ground is connected through lead N, to battery through the winding of the OD relay which operates. The operation of the OD relay, operates the #4-C buzzer, providing the buzzer key is operated.
6. When the key associated with the trunk is operated, in answering or holding a call, battery or ground is removed from the "X", "Y", or "N" leads, restoring the circuit to normal.

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CIRCUIT REQUIREMENTS

	<u>OPERATE</u>	<u>NON-OPERATE</u>	<u>RELEASE</u>
B-10	Test .033 amp.		Test .002 amp.
(TK)	Readj. .025 amp.		Readj. .004 amp.
E-5	Test .014 amp.		Test .0015 amp.
(OG)	Readj. .008 amp.		Readj. .003 amp.

ENG.--ACLIH-ML
9/30/21

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APPROVED - C.L. SLUYTER, G.M.L.